

Architecture of the UAV Swarm Command and Control Systems – an overview

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Abstract:

This paper presents an overview of Command and Control Systems used for the swarm of Unmanned Aerial Vehicles. This problem is the object of scientific research carried out within the implementation doctorate (PhD) at the Warsaw University of Technology and the Łukasiewicz Research Network - Institute of Aviation. The first part of the article discusses the requirements for swarm control systems of Unmanned Aerial Vehicles – Multi-Rotor and Fixed-Wing platforms. The second part of the article presents the current applied drone swarm control architectures and specific directions of their development.